

Date: Tue, 12 Oct 93 04:30:20 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V93 #75  
To: Ham-Ant

Ham-Ant Digest                      Tue, 12 Oct 93                      Volume 93 : Issue    75

Today's Topics:

    ??Coated vs noncoated diapole??BEST??  
    ??Thick or thin diapole wire best???  
        Camouflaged Weather Vane for 2m  
            ELNEC  
            FAQ wanted  
        Proper J-Pole Grounding

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 11 Oct 1993 20:58:16 GMT  
From: europa.eng.gtefsd.com!library.ucla.edu!agate!news.ucdavis.edu!  
bullwinkle.ucdavis.edu!szhall@uunet.uu.net  
Subject: ??Coated vs noncoated diapole??BEST??  
To: ham-ant@ucsd.edu

Does it make any difference if u use coated or noncoated wire for ur  
diapole??tnx..Jeff

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Date: Mon, 11 Oct 1993 22:44:10 GMT  
From: fluke!rem@beaver.cs.washington.edu  
Subject: ??Thick or thin diapole wire best???  
To: ham-ant@ucsd.edu

In article <CEM2EC.8q0@ucdavis.edu> szhall@bullwinkle.ucdavis.edu () writes:

>  
>  
>I just put up a 40 meter diapole and it works very well, I also use it for  
>other bands with a tuner. I am using RG 58U feed line. My question is  
>this: Other than strength is it better to use thicker wire for a ant.  
>Someone one told me if I use a thick wire I don't need to adjust the  
>tuner so often between freq. Thicker wire is broad band. What's ur  
>comment..Tnx for reading this..Jeff

Yes the thickness of the wire does make a difference and yes the thicker the broader the Q of the antenna. Therefore the bandwidth is wider. But the difference between #14 and say #10 is so small that it is hard to measure the difference at HF. VHF and UHF is a different story because the thickness is a greater portion of the wavelength at VHF/UHF than it is at HF.

Making a multi-wire "caged" dipole goes more to broadbanding an HF dipole than just increasing the size of the wire itself.

Randy  
AJ7B

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Date: Tue, 12 Oct 1993 07:50:22 +0000  
From: news.sprintlink.net!demon!cix.compulink.co.uk!jnewgas@uunet.uu.net  
Subject: Camouflaged Weather Vane for 2m  
To: ham-ant@ucsd.edu

I live in a development which does not allow external antennas. I heard of a company which makes/sells 2m antennas disguised as Weather Vanes. If you know of this or have any other good ideas for low visibility or camouflaged antennas for 2m I would love to hear them.  
John Newgas - G7LTQ in UK or N2UYI in USA.

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Date: 12 Oct 1993 01:55:50 GMT  
From: gumby!destroyer!nntp.cs.ubc.ca!unixg.ubc.ca!rflab.ee.ubc.ca!davem@yale.arpa  
Subject: ELNEC  
To: ham-ant@ucsd.edu

Just a quick question about MoM software...

Is ELNEC derived from MiniNEC or NEC2? Is it simply an enhancement of the user interface or does it incorporate other improvements??

--  
Dave Michelson

davem@ee.ubc.ca

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Date: 12 Oct 93 08:28:23 GMT  
From: ogicse!uwm.edu!rpi!ghost.dsi.unimi.it!serra!manfrin@network.ucsd.edu  
Subject: FAQ wanted  
To: ham-ant@ucsd.edu

Does anyone have the FAQ file for radio.amateur.antenna ? I really need it.  
Please send it to manfrin@cli.di.unipi.it. Thanks a lot.

- Samuele

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| Samuele Manfrin          | Opinions expressed here are strictly |
| manfrin@cli.di.unipi.it  | mine.                                |
+-----+-----+
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Date: Mon, 11 Oct 93 21:44:22 GMT  
From: csus.edu!netcom.com!netcomsv!vitsemi!rob@decwrl.dec.com  
Subject: Proper J-Pole Grounding  
To: ham-ant@ucsd.edu

I have a copper pipe J-Pole antenna that I plan to mount  
on my roof.

My question is how should I ground it, especially for  
safety? My plan is to connect a ground wire to the  
base of the antenna and run that to an earth ground.

What should I use as a ground wire? I favor using  
copper braid. Where can I purchase this?

Thanks in advance for your answers.

73!

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Rob Eccles KD6VYW | Disclaimer: The statements made here do not  
rob@vitsemi.COM | represent my employer or anyone else.

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Date: 12 Oct 1993 00:22:36 GMT

From: dog.ee.lbl.gov!agate!howland.reston.ans.net!sol.ctr.columbia.edu!destroyer!  
nntp.cs.ubc.ca!unixg.ubc.ca!rflab.ee.ubc.ca!davem@network.ucsd.edu  
To: ham-ant@ucsd.edu

References <nlewis.0lqd@terapin.com>, <1993Oct9.171123.7950@ke4zv.atl.ga.us>,  
<1993Oct11.231450.3158@scubed.com>.c  
Subject : Re: Lindenblad Antenna

In article <1993Oct11.231450.3158@scubed.com>,  
James R. Duffey <ji3m@scubed.com> wrote:  
>

>The Lindenblad is a neat way to generate circular  
>polarization and was initially developed by Lindenblad at  
>RCA to reduce ghosting on TV and FM from skyscrapers in  
>New York City.

Without going into great detail, the notion that use of CP antennas reduces  
multipath fading is largely wishful thinking on the part of Kraus and  
others.

In an ideal setting where the ground is a \*perfect\* conductor, the  
sense of the multipath wave is indeed reversed while its ellipticity  
remains unchanged. In practice, incidence often occurs below the  
Brewster angle and the sense of the multipath wave is \*NOT\* reversed.  
Similarly, the ellipticity of the multipath wave is rarely preserved  
on reflection.

There was certainly a great deal of interest in the use of CP antennas  
to reduce multipath in TV during the late 1970's and early 1980's.  
The NAB Conference Proceedings and IEEE Transactions on Broadcasting  
contain quite a few papers on the subject. In practice, the results  
were extremely disappointing and the matter was quickly abandoned.

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Dave Michelson  
davem@ee.ubc.ca

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End of Ham-Ant Digest V93 #75  
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